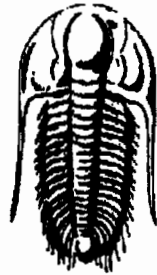


15-135-24962

14-17s-25w



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **John O Farmer, Inc.**

370 W Wichita Ave
Russell KS 67665

ATTN: Bob Stolze

14 17S 25W Ness KS

Mishler-Potter A #1

Start Date: 2009.10.22 @ 01:02:23

End Date: 2009.10.22 @ 08:47:23

Job Ticket #: 35516 DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2009.10.28 @ 11:14:07 Page 1

John O Farmer, Inc.

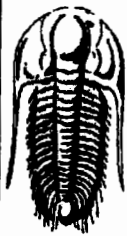
Mishler-Potter A #1

14 17S 25W Ness KS

DST # 1

Fl. Scott

2009.10.22



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

John O Farmer, Inc.

370 W Wichita Ave
Russell KS 67665

ATTN: Bob Stolze

Mishler-Potter A #1

14 17S 25W Ness KS

Job Ticket: 35516

DST#: 1

Test Start: 2009.10.22 @ 01:02:23

GENERAL INFORMATION:

Formation: **Ft. Scott**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: **03:53:53**

Time Test Ended: **08:47:23**

Test Type: **Conventional Bottom Hole**

Tester: **Brett Dickinson**

Unit No:

Interval: **4305.00 ft (KB) To 4345.00 ft (KB) (TVD)**

Total Depth: **4345.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition:

Reference Elevations: **2455.00 ft (KB)**

2447.00 ft (CF)

KB to GR/CF: **8.00 ft**

Serial #: 8371

Inside

Press@RunDepth: **114.75 psig @ 4309.00 ft (KB)**

Start Date: **2009.10.22**

End Date:

2009.10.22

Start Time: **01:02:28**

End Time:

08:47:22

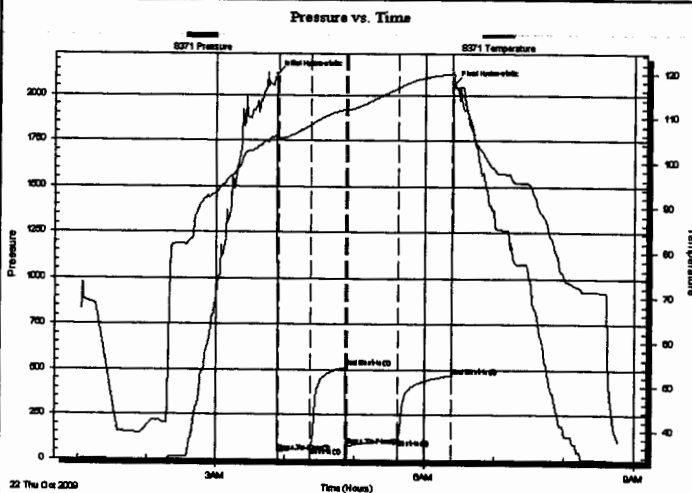
Capacity: **8000.00 psig**

Last Calib.: **2009.10.22**

Time On Btm: **2009.10.22 @ 03:52:23**

Time Off Btm: **2009.10.22 @ 06:24:52**

TEST COMMENT: IF-BOB in 4min
IS-very weak surface blow
FF-BOB in 3.5min
FS-very weak surface blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2117.93	106.18	Initial Hydro-static
2	43.07	105.44	Open To Flow (1)
30	66.75	108.37	Shut-in(1)
60	514.28	111.87	End Shut-in(1)
61	76.55	111.69	Open To Flow (2)
105	114.75	116.70	Shut-in(2)
151	469.49	119.91	End Shut-in(2)
153	2061.39	119.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GMCO 30%G 50%O 20%M	0.57
120.00	VGMCO 40%G 45%O 15%M	1.68
150.00	GMCO 10%G 65%O 25%M	2.10
0.00	2900ft GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRIOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer, Inc.

Mishler-Potter A #1

370 W Wichita Ave
Russell KS 67665

14 17S 25W Ness KS

Job Ticket: 35516

DST#: 1

ATTN: Bob Stolze

Test Start: 2009.10.22 @ 01:02:23

Tool Information

Drill Pipe:	Length: 4265.00 ft	Diameter: 3.80 inches	Volume: 59.83 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 78000.00 lb
		Total Volume:	59.98 bbl	Tool Chased ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4305.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	63.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4287.00	
Hydraulic tool	5.00			4292.00	
Safety Joint	3.00			4295.00	
Packer	5.00			4300.00	23.00 Bottom Of Top Packer
Packer	5.00			4305.00	
Stubb	1.00			4306.00	
Perforations	2.00			4308.00	
Change Over Sub	1.00			4309.00	
Recorder	0.00	8018	Inside	4309.00	
Recorder	0.00	8371	Inside	4309.00	
Blank Spacing	32.00			4341.00	
Change Over Sub	1.00			4342.00	
Bullnose	3.00			4345.00	40.00 Bottom Packers & Anchor

Total Tool Length: 63.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer, Inc.

Mishler-Potter A #1

370 W Wichita Ave
Russell KS 67665

14 17S 25W Ness KS

Job Ticket: 35516

DST#: 1

ATTN: Bob Stolze

Test Start: 2009.10.22 @ 01:02:23

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 64.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GMCO 30%G 50%O 20%M	0.568
120.00	VGMCO 40%G 45%O 15%M	1.683
150.00	GMCO 10%G 65%O 25%M	2.104
0.00	2900ft GIP	0.000

Total Length: 330.00 ft

Total Volume: 4.355 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

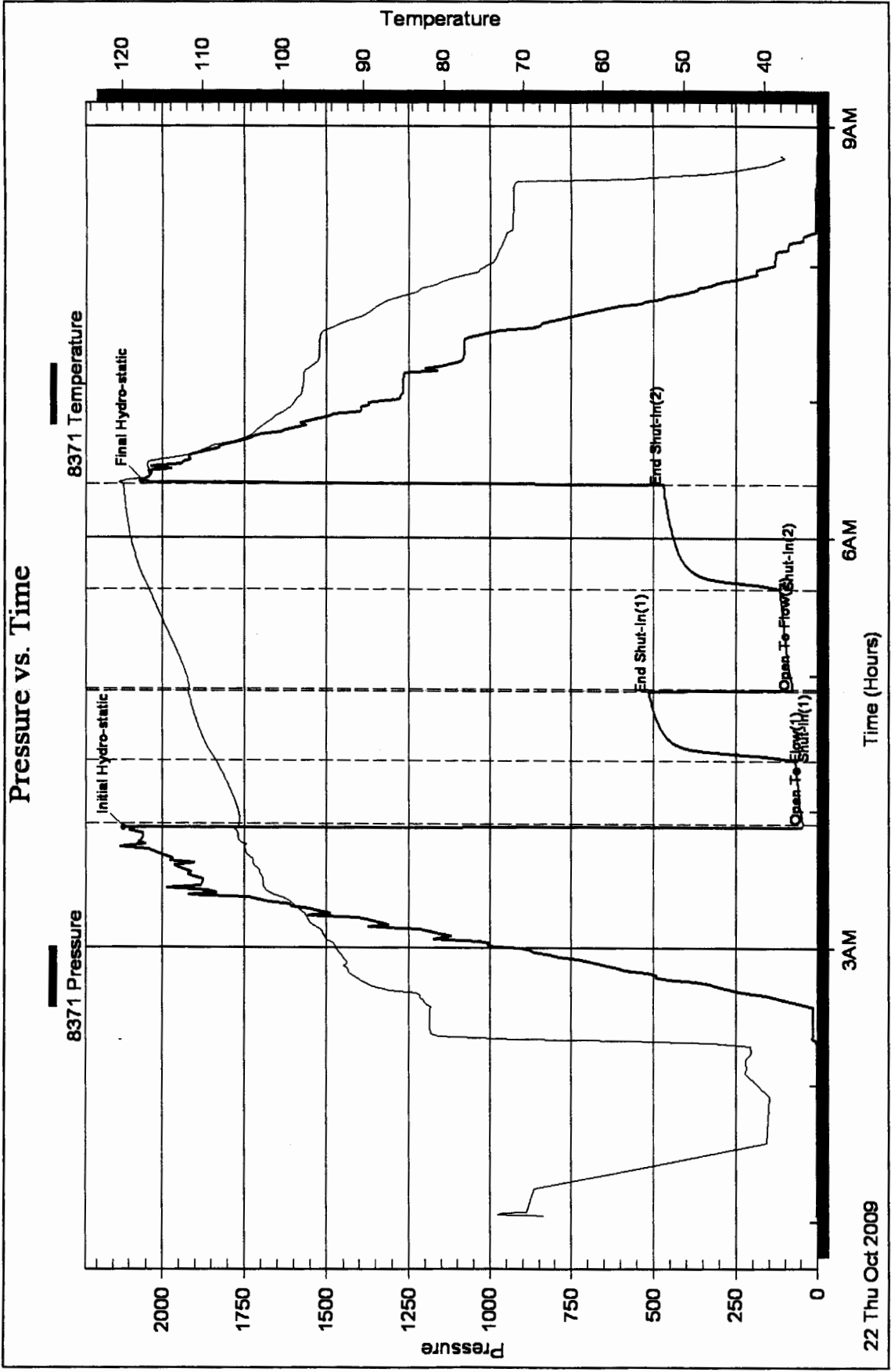
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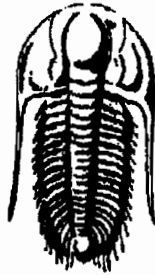
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **John O Farmer, Inc.**

370 W Wichita Ave
Russell KS 67665

ATTN: Bob Stolzle

14 17S 25W Ness KS

Mishler-Potter A #1

Start Date: 2009.10.22 @ 21:20:53

End Date: 2009.10.23 @ 03:04:53

Job Ticket #: 35517 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

John O Farmer, Inc.

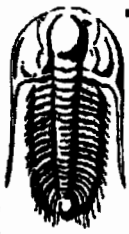
Mishler-Potter A #1

14 17S 25W Ness KS

DST # 2

Miss.

2009.10.22



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer, Inc.
370 W Wichita Ave
Russell KS 67665

ATTN: Bob Stolze

Mishler-Potter A #1
14 17S 25W Ness KS
Job Ticket: 35517 **DST#: 2**
Test Start: 2009.10.22 @ 21:20:53

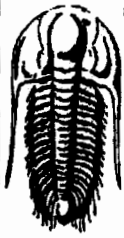
Tool Information

Drill Pipe:	Length: 4325.00 ft	Diameter: 3.80 inches	Volume: 60.67 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 73000.00 lb
			<u>Total Volume: 60.82 bbl</u>	Tool Chased: ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4365.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	70.00 ft			
Tool Length:	98.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4342.00	
Hydraulic tool	5.00			4347.00	
Jars	5.00			4352.00	
Safety Joint	3.00			4355.00	
Packer	5.00			4360.00	28.00 Bottom Of Top Packer
Packer	5.00			4365.00	
Stubb	1.00			4366.00	
Perforations	2.00			4368.00	
Change Over Sub	1.00			4369.00	
Recorder	0.00	8018	Inside	4369.00	
Recorder	0.00	8371	Inside	4369.00	
Blank Spacing	32.00			4401.00	
Change Over Sub	1.00			4402.00	
Perforations	30.00			4432.00	
Bullnose	3.00			4435.00	70.00 Bottom Packers & Anchor

Total Tool Length: 98.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer, Inc.

Mishler-Potter A #1

370 W Wichita Ave
Russell KS 67665

14 17S 25W Ness KS

Job Ticket: 35517

DST#: 2

ATTN: Bob Stoizle

Test Start: 2009.10.22 @ 21:20:53

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 59.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.97 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1800.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	VSOCM 5%O 95%M	0.074
		0.000

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 8371

Inside John O Farmer, Inc.

14 17S 25W Ness KS

DST Test Number: 2

Pressure vs. Time

